Title (en)
Automatic analzyer and sample-processing system

Title (de)
Automatisches Analyse- und Probenverarbeitungssystem

Title (fr)
Analyseur automatique et système de traitement des échantillons

Publication
EP 2075583 A2 20090701 (EN)

Application
EP 08022420 A 20081223

Priority
JP 2007331312 A 20071225

Abstract (en)
Disclosed herein is a sample-processing system that can improve total system processing efficiency, and reduce a sample-processing time, by establishing a functionally independent relationship between a rack conveyance block with rack supply, conveyance, and recovery functions, and a processing block with sample preprocessing, analysis, and other functions. A buffer unit with random accessibility to multiple racks standing by for processing is combined with each of multiple processing units to form a pair, and the system is constructed to load and unload racks into and from the buffer unit through the rack conveyance block so that one unprocessed rack is loaded into the buffer unit and then upon completion of process steps up to automatic retesting, unloaded from the buffer unit. Functional dependence between any processing unit and a conveyance unit is thus eliminated.

IPC 8 full level
G01N 35/02 (2006.01); **G01N 35/04** (2006.01)

CPC (source: EP US)
G01N 35/026 (2013.01 - EP US); **G01N 35/04** (2013.01 - EP US); **G01N 35/10** (2013.01 - US); G01N 2035/00326 (2013.01 - US); G01N 2035/0462 (2013.01 - EP US); G01N 2035/0465 (2013.01 - US); G01N 2035/0467 (2013.01 - EP US); Y10T 436/113332 (2015.01 - EP US); Y10T 436/115831 (2015.01 - EP US)

Citation (applicant)
• JP H1019899 A 19980123 - HITACHI LTD
• JP H10213586 A 19980811 - HITACHI LTD

Cited by
EP2894479A4; EP2485059A4; EP3176587A4; US9952239B2; US10684298B2; EP3349013A4; EP4053565A1

Designated contracting state (EPC)
DE FR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2075583 A2 20090701; **EP 2075583 A3 20140514**; **EP 2075583 B1 20210331**; CN 101470125 A 20090701; CN 101470125 B 20121212; CN 102981006 A 20130320; CN 102981006 B 20140618; JP 2009150859 A 20090709; JP 5049769 B2 20121017; US 10094846 B2 20181009; US 11391750 B2 20220719; US 2009162247 A1 20090625; US 2012294764 A1 20121122; US 2016084864 A1 20160324; US 2018313862 A1 20181101; US 8252233 B2 20120828; US 9229019 B2 20160105

DOCDB simple family (application)
EP 08022420 A 20081223; CN 200810184456 A 20081224; CN 201210457573 A 20081224; JP 2007331312 A 20071225; US 201213560114 A 20120727; US 201514956663 A 20151202; US 201816028538 A 20180706; US 34216208 A 20081223